AUTODOC CLUB

How to change front lower arm on **BMW X5 E53** – replacement guide

VIDEO TUTORIAL

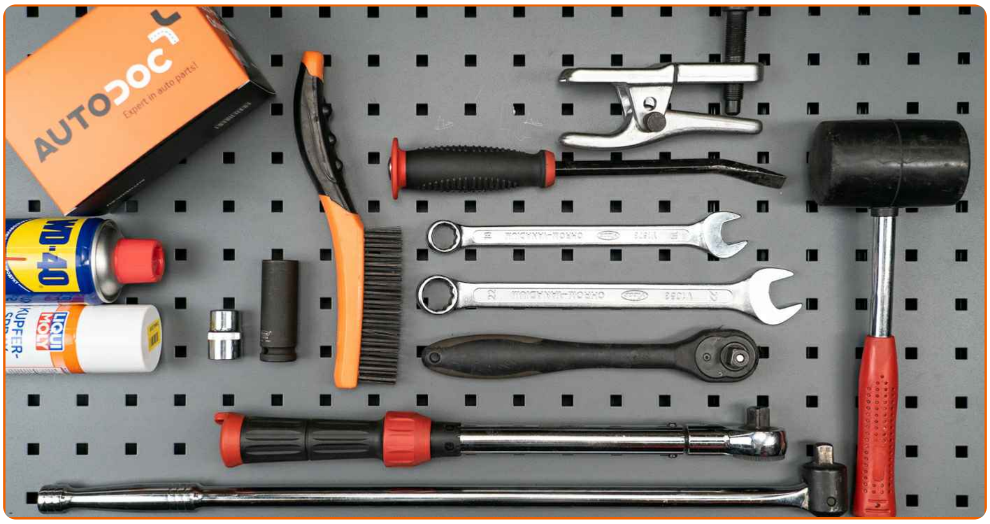


Important!

This replacement procedure can be used for:
BMW X5 (E53) 4.4 i, BMW X5 (E53) 3.0 d, BMW X5 (E53) 4.6 is, BMW X5 (E53) 3.0 i, BMW X5 (E53) 4.8 is

The steps may slightly vary depending on the car design.

REPLACEMENT: FRONT LOWER ARM – BMW X5 E53. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #18
- Combination spanner #22
- Drive socket # 18
- Wheel impact socket #19
- Ball joint puller
- Ratchet wrench
- Torque wrench
- Rubber mallet
- Crow bar
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: front lower arm – BMW X5 E53. AUTODOC experts recommend:

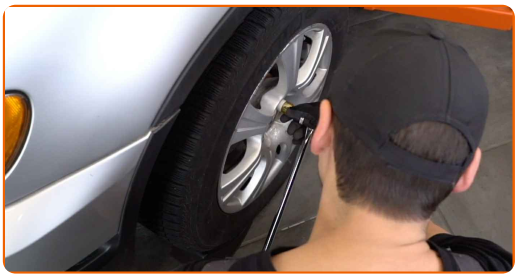
- The replacement procedure is identical for the left and right lower control arms.
- Replacement of the independent suspension lower arm in some cars requires a part of the outlet piping of the additional heater to be removed.
- All work should be done with the engine stopped.

REPLACEMENT: FRONT LOWER ARM – BMW X5 E53. USE THE FOLLOWING PROCEDURE:

1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #19.



3 Raise the front of the car and secure on supports.



4 Unscrew the wheel bolts.



Replacement: front lower arm – BMW X5 E53. Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

5 Remove the wheel.



6 Clean all joints of the arm. Use a wire brush. Treat all joints of the arm. Use WD-40 spray.

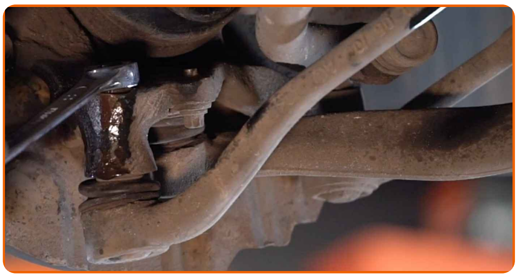


AUTODOC recommends:

- Replacement: front lower arm – BMW X5 E53. After applying the spray, wait a few minutes.

7

Unscrew the ball joint fastening nut. Use a combination spanner #22.



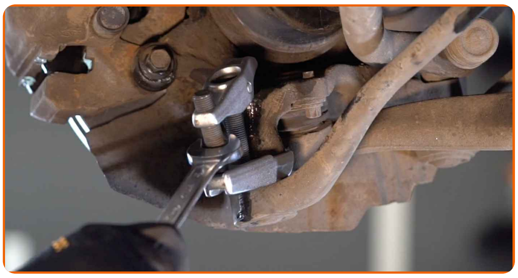
8

Unscrew the arm fastening from the subframe. Use a drive socket #18. Use a combination spanner #18. Use a ratchet wrench.



9

Disconnect the ball joint from the steering knuckle. Use a ball joint puller.



10

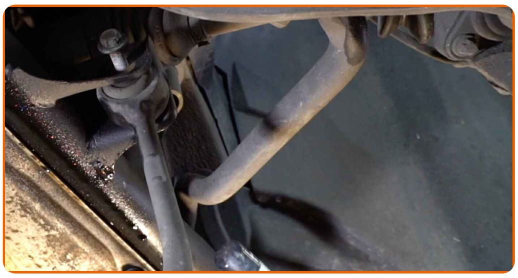
Prop up the steering knuckle. Use a hydraulic transmission jack.



11 Remove the ball joint from the steering knuckle. Use a crowbar.



12 Remove the fastening bolt. Use a rubber mallet.



13 Remove the arm.



14 Lower the hydraulic transmission jack by 10-15 cm.

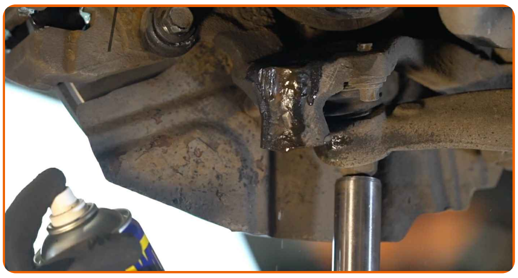


Replacement: front lower arm – BMW X5 E53. AUTODOC recommends:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

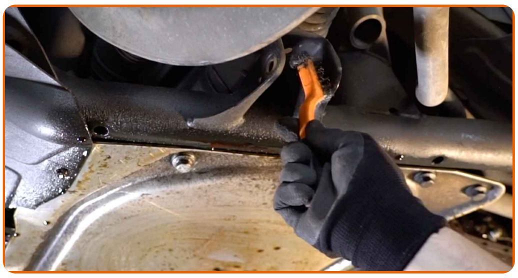
15.1

Clean the mounting seats and the thread of the suspension arm.



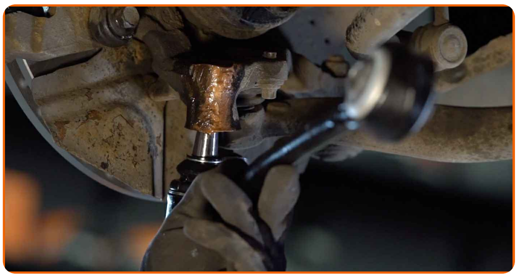
15.2

Use a wire brush. Use WD-40 spray.



16

Install a new arm.

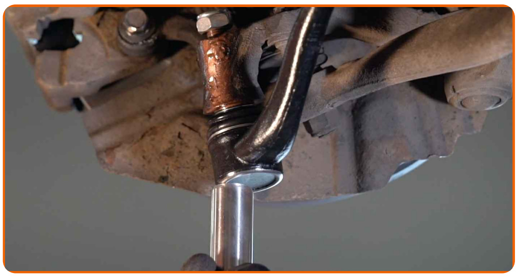


Replacement: front lower arm – BMW X5 E53. Tip from AUTODOC experts:

- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.

17

Support the arm. Use a hydraulic transmission jack.



18

Insert the ball joint into the steering knuckle and fix it with a new nut.



19

Tighten the arm fastening to the subframe. Use a drive socket #18. Use a combination spanner #18. Use a torque wrench. Tighten it to 100 Nm torque.+90°



AUTODOC recommends:

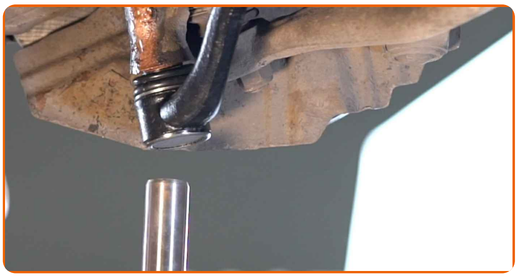
- Important! Be sure to use new fasteners.

20

Tighten the ball joint fastening nut. Use a combination spanner #22. Use a torque wrench. Tighten it to 80 nm torque.



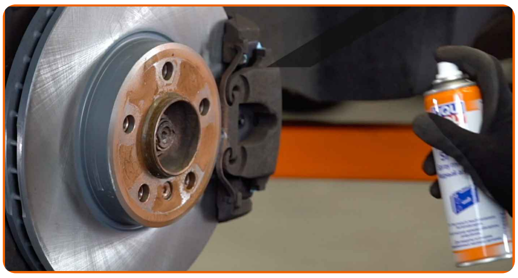
21 Remove the support from under the arm.



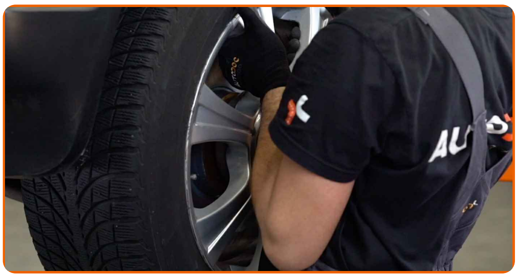
AUTODOC recommends:

- Replacement: front lower arm – BMW X5 E53. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

22 Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



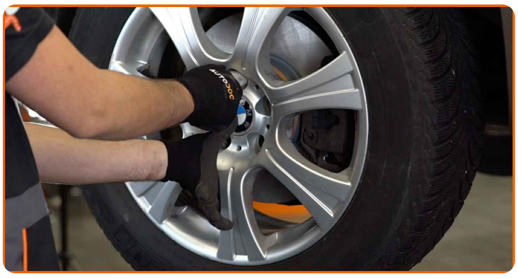
23 Install the wheel.



Replacement: front lower arm – BMW X5 E53. Tip from AUTODOC:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

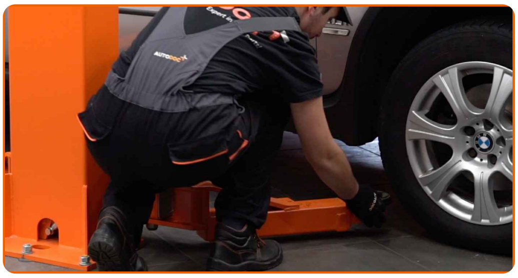
24 Screw in the wheel bolts. Use wheel impact socket #19.



25 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 140 nm torque.



26 Remove the jacks and chocks.

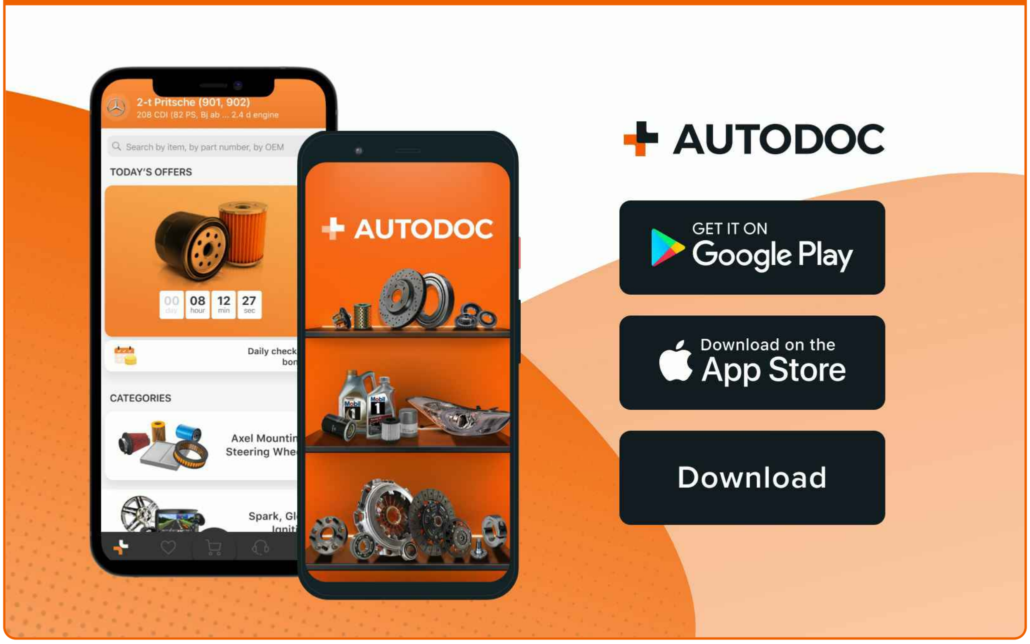


WELL DONE!

VIEW MORE TUTORIALS

AUTODOC — TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING



A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR

BUY SPARE PARTS FOR BMW

CONTROL ARM: A WIDE SELECTION

ⓘ DISCLAIMER:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.